



SHOP TALK

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Saving Money With Energy Efficient Boilers

Boilers account for a large percentage of CO₂ emissions according to the Ministry of the Environment. So it's no surprise that one of the most effective ways of reducing your energy bills is to replace an old or inefficient boiler, generally those over 20 years old. Most modern boiler systems are designed to be energy efficient and need less fuel to run with the most efficient condensing boilers using 30-40% less fuel and electricity.

Installing a new boiler is expensive but the savings you could make through lower heating bills can help you recover the cost within 3-5 years and the savings would continue long after. There are incentive grants available through the local utilities to help you with the cost of purchase and installation. Couple any incentive grant together with the ECOFLEX financing program offered by Johnson Paterson, upgrading your old pre existing boiler system should strongly be considered.

Save up to 40% with an energy efficient boiler?

Using a high efficiency condensing boiler with heating controls could save you as much as one third of your heating bills straight away. If you install the right heating controls, you could save up to 40% off your bills.

As the average lifespan of a boiler is 15-20 years,

choosing the right heating system with a high efficiency condensing boiler and correct heating controls can make a significant difference to your heating bills long after they're paid for.

What is a high efficiency condensing boiler?

Modern high efficiency condensing boilers can convert upwards of 99% of their fuel into heat compared to 78% or less for conventional boilers.

A high efficiency condensing boiler works by retaining as much of the waste heat as possible which is normally lost into the atmosphere from the flue of a conventional boiler system.

These efficiencies are achieved by using a highly engineered heat exchanger which maximizes the heat transferred from the burner while recovering heat which would normally be lost with the flue gases. A condensing boiler will always be more efficient than a conventional model due to its efficient heat exchanger system.

Consider the Cleaver Brooks Clear Fire High Efficiency Condensing Boiler as it is the choice by most customers. Give one of our experienced sales engineers a call for further information on how you can improve your overall boiler and system efficiency.



Cleaver Brooks—The Power of Commitment

Welcome To Spring!

I for one am very happy it has arrived as this past winter seemed VERY long to me. Now that spring has arrived I want to get you thinking about the upcoming service for this year.

Now is the time to start making these arrangements and thinking about anything that may have come up over the winter that there was no opportunity to fix due to the weather. I am hoping for a VERY long summer however if we believe environment Canada this may only be a dream on my part, so I am planning to work my summer based on the assumption that I must get as much work done in as short a time as possible.

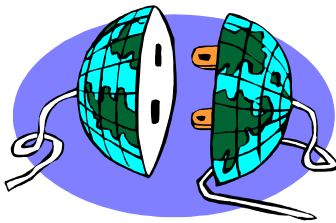
With this in mind I advise everyone to look at

their heating systems and make the necessary calls or e-mails to schedule the service for 2011.

I would be remiss if I didn't mention something about savings with the price of gas going up every day it seems. At this time of the year your boilers are running less and when they are they are modulating quite often. This is what we would call a shoulder season which is when a system like a FARC (fuel air ratio control) system would benefit you the most. There is also another alternative to this, the installation of a smaller boiler alongside the larger units to run in the shoulder seasons.

Barry Keough

Earth Hour: Come and Gone — Now What?



Earth Hour was not as great a success this year as it was for the last two years. Only a 5% reduction in energy consumption in the city of Toronto this year as opposed to 10% last year and 15% the year before. This difference could be somewhat accounted for because of the slightly colder weather this year over the last two years. But we could have sat in the cold as well as the dark, to show our Canadian endurance!

Now that we did our bit for an hour is that it? Do we adopt a do nothing attitude for the rest of the year until we get around to "Earth Hour" next year? I hope not!

All of us personally and corporately should take it upon ourselves to do our little bit to contribute to the reduction of greenhouse gases the whole year through. We can do this by doing some simple things around the house and the office or plant that we work in. Little things such as:

turning the lights off when we leave the room, turn off your computer when you leave for the day, turn the temperature down on the thermostat at night by a few degrees, don't idle your vehicle for more than a minute when you start it up — these are the little things we can all do.

On a larger scale "we", households and corporate, can reduce energy in our homes and buildings by changing our heating equipment for more efficient units, or we can update equipment with newer burners or controls to control emissions and reduce consumption. "We" can also reduce energy used for domestic hot water consumption and hot water used for process by adding Thermal Solar panels to pre-warm water; this is very popular in Europe as they are leaps and bounds ahead of us in North America.

Please do your part to save our planet, call one of us at Johnson Paterson for an in house plant or building audit to help you realize savings and do your bit for "Earth Hour" all year long.

Greg Salazar



Tech Talk: Chimney/Breeching Inspection

When was the last time that your boiler breeching / chimney system was inspected?

The common answer that we receive to this question is, “I don’t know.... I don’t think it has ever been inspected.... Then we are usually asked, “What is a chimney / breeching inspection?” A chimney / breeching inspection is a procedure in which a technician examines the breeching / chimney for any signs of safety concerns. The inspection includes identification of flaws, blockages and corrosion along with recommendations for improvements. It is a good idea to have the breeching / chimney off each boiler inspected on an annual basis. Chimney / breeching inspections are now becoming mandatory as per the TSSA – Technical Standard & Safety Authority fuel safety code. The reason for this requirement is there have been increasing numbers of incidents of carbon monoxide poisoning. This occurs when the products of combustion (CO – carbon Monoxide) from a fuel burning appliance enters the occupied and inhabited space i.e. office space, restaurant, class room and apartments resulting in series bodily injury and or sometimes death. Most often the sole cause of the incident is due to poorly maintained chimneys / breeching systems. Far too often, the breeching / chimney component of the heating system is over looked when it comes to preventative maintenance of a heating system.

The boiler breeching and chimney portion of your boiler system play a vital role in ensuring

that the flue gasses – the products of combustion are vented to atmosphere safely. When the products of combustion are being vented to the atmosphere, most times the hot flue gasses cool resulting in the formation of condensation with in the breeching / chimney. The condensation will cause corrosion when it comes in contact with the steel portion of the breeching and or brick, concrete and refractory chimneys.

Johnson Paterson can offer the inspection system which allows our customers to obtain digital video recordings of the interior of small diameter chimney liners where physical inspection is not possible via a remote cam. Remote cam inspections can be performed on steel, brick, concrete and refractory lined chimneys. The remote cam inspection service includes a full inspection of the exterior and the interior of the chimney. The technicians physically inspect the chimney / breechings exterior and the remote cam inspects the interior. For steel chimneys we take ultrasonic thickness measurements at regular intervals. A written report is provided with digital photos as well as a video recording of the interior surface of the chimney liner. Make the change. Have your chimney / breeching inspected today and put it on an annual PMP – Preventative Maintenance Program. ***“Don’t wait until it’s too late.”*** Call Johnson Paterson to book your chimney / breeching inspection today.

Kevin Kingston





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How Are We Doing?

I recently had the privilege of hearing a report on the economy through 2014 from a leading economist from ITR. ITR has been in business over 60 years and can boast a 96% accuracy in their predictions. The format was a Webinar that was attended by over 50 business owners across the GTA.

The first question asked was, "How do you feel about the state of the economy for 2011?" It was encouraging that 72% of us felt optimistic about it, almost bullish. ITR's stand is that the economy will grow slightly through 2011 and then get stronger through 2014. As for the export market, the most significant strength will take place in Latin America and Indonesia and oil prices will stabilize around \$95.00 a barrel once the current turmoil in North Africa is settled. Canadian shipments of goods will remain steady through 2011 and strengthen through 2014; with Alberta, Ontario, BC and Nova Scotia leading the way. Industrial production will be growing steadily at 3-4% yearly through 2014. Inflation will be steady at 2% for 2011 then growing slightly to between 4-5% to 2014. Unemployment will continue to improve to 7-7.5% by 2014, which will fuel the economy; if more people are working then more people will be spending. Interest rates will continue to be attractive and we should be taking advantage of how low they are by expanding, looking for opportunities in Canada first, and then Latin America, but not in the U.S.

The U.S. fiscal policies will be driving up inflation south of the border. They also warned against Russia. The majority of western banks have announced they are pulling out of Russia due to difficulties with the Russian lending policies. Interest rates will continue to remain under 5% for the foreseeable future. The Canadian dollar will remain strong against the USD and the USD will continue to weaken against the world markets. Our dollar will continue to be influenced by demographics, our fiscal policies, and resources. The stock market will continue to rise through 2014. Bond funds are not the place to be and less than 30% of your portfolio should consist of bonds. Commodities will be a good investment, as well as real estate, residential and commercial, mining stocks and gold (the prediction is \$2,000.00 an ounce). Retail sales will grow 5% year over year. I must say, this is encouraging news. I hope you find this information useful.

Kerry Johnson

